
COURSE DESCRIPTIONS BY COURSE DISCIPLINE PREFIX

CLINICAL CHEMISTRY I

MLT-130 **Clinical Chemistry I** **4 (3-3)** **Spring**
Prerequisites: MLT-110^L

Corequisites:

This course introduces the quantitative analysis of blood and body fluids and their variations in health and disease. Topics include clinical biochemistry, methodologies, instrumentation, and quality control. Upon completion, students should be able to demonstrate theoretical comprehension of clinical chemistry, perform diagnostic techniques, and correlate laboratory findings with disorders. (1997 SU)

HEMATOLOGY/HEMOSTASIS I

MLT-120 **Hematology/Hemostasis I** **4 (3-3)** **Spring**
Prerequisites: MLT-110^L

Corequisites:

This course introduces the theory and technology used in analyzing blood cells and the study of hemostasis. Topics include hematology, hemostasis, and related laboratory testing. Upon completion, students should be able to demonstrate theoretical comprehension of hematology/hemostasis, perform diagnostic techniques, and correlate laboratory findings with disorders. (1997 SU)

HEMATOLOGY/HEMOSTASIS II

MLT-220 **Hematology/Hemostasis II** **3 (2-3)** **Spring**
Prerequisites: MLT-120^L

Corequisites:

This course covers the theories and techniques used in the advanced analysis of human blood cells and hemostasis. Emphasis is placed on the study of hematologic disorders, abnormal cell development and morphology, and related testing. Upon completion, students should be able to demonstrate a theoretical comprehension and application of abnormal hematology and normal and abnormal hemostasis. (1997 SU)

IMMUNOLOGY AND SEROLOGY

MLT-126 **Immunology and Serology** **2 (1-2)** **Fall**
Prerequisites: MLT-110^L

Corequisites:

This course introduces the immune system and response and basic concepts of antigens, antibodies, and their reactions. Emphasis is placed on basic principles of immunologic and serodiagnostic techniques and concepts of cellular and humoral immunity in health and disease. Upon completion, students should be able to demonstrate theoretical comprehension and application in performing and interpreting routine immunologic and serodiagnostic procedures. (1997 SU)

SPECIAL CLIN MICROBIOLOGY

MLT-240 **Special Clin Microbiology** **3 (2-3)** **Spring**
Prerequisites: MLT-140^S

Corequisites:

This course is designed to introduce special techniques in clinical microbiology. Emphasis is placed on advanced areas in microbiology. Upon completion, students should be able to demonstrate theoretical comprehension in performing and interpreting specialized clinical microbiology procedures. (1997 SU)

TRANSFUSION MEDICINE

MLT-127 **Transfusion Medicine** **3 (2-3)** **Summer**
Prerequisites: MLT-126^L

Corequisites:

This course introduces the blood group systems and their applications in transfusion medicine. Emphasis is placed on blood bank techniques including blood grouping and typing, pretransfusion testing, donor selection and processing, and blood component preparation and therapy. Upon completion, students should be able to demonstrate theoretical comprehension and application in performing/interpreting routine blood bank procedures and recognizing/resolving common problems. (1997 SU)

URINALYSIS & BODY FLUIDS

MLT-111 **Urinalysis & Body Fluids** **2 (1-3)** **Summer**
Prerequisites: MLT-110^L

Corequisites:

This course introduces the laboratory analysis of urine and body fluids. Topics include physical, chemical, and microscopic examination of the urine and body fluids. Upon completion, students should be able to demonstrate theoretical comprehension in performing and interpreting urinalysis and body fluid tests. (1997 SU)